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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

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Applicant's or agent's file reference PIA30413/PSC	FOR FURTHER ACTION SeeNotificationofTransmittalofInternationalPreliminary Examination Report (Form PCT/IPEA/416)				
International application No.	International filing date(day/m	nonth/year)	Priority date (day/month/yea		
PCT/KR2003/000840	25 APRIL 2003 (25.04.	.2003)	25 APRIL 2002 (25.04.200)	2)	
International Patent Classification (IPC IPC7 H04R 1/00, H04R 1/02, H		PC			
Applicant POSTECH FOUNDATION	et al				
This international preliminary and is transmitted to the application.	examination report has been preant according to Article 36.	epared by this Inte	emational Preliminary Examin	ing Authority	
2. This REPORT consists of a total of sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a total ofsheets.					
3. This report contains indications relating to the following items:					
I X Basis of the report					
Π Priority					
III Non-establishme	ent of opinion with regard to nov	elty, inventive ster	and industrial applicability		
IV Lack of unity of	Last of with of invention				
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
VI Certain documents cited					
VII Certain defects	in the international application		,		
VIII Certain observations on the international application					
•					
Date of submission of the demand	T	Date of completion	n of this report		
18 NOVEMBER 2003 (18.	11.2003)	22 JULY	2004 (22.07.2004)		
Name and mailing address of the I	PEA/KR	Authorized office	r		
Korean Intellectual Pr		NA, Yong S			
Facsimile No. 82-42-472-7140		Telephone No. 8	32-42-481-5680	The state of the s	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International aplication No.
PCT/KR2003/000840

I,	Basis of the report	
	With regard to the elements of the international application:*	
	the international application as originally filed	
	the description:	, as originally filed
	pages pages	, filed with the demand
	pages, filed with the letter of	
	the claims:	, as originally filed
	pages, as amended (together with	any statment) under Article 19
	pages, filed with the letter of	
	the drawings: pages	, as originally filed
	pages, filed with the letter of	, mod with the demand
	CA - Associations	
	the sequence listing part of the description: pages	, as originally filed
	pages, filed with the letter of	
	 With regard to the language, all the elements marked above were available or furnished to this at the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language	examination(under Rules 55.2 and/ application, the international
	4. The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheet	
	5. This report has been established as if (some of) the amendments had not been made go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c))	e, since they have been considered to
	* Replacement sheets which have been furnished to the receiving Office in response to an invite in this opinion as "originally filed." and are not annexed to this report since they do not and 70.17).	ation under Article 14 are referred to contain amendments (Rules 70.16
	** Any replacement sheet containing such amendments must be referred to under item I and an	nnexed to this report.



International aplication No.
PCT/KR2003/000840

/. Reasoned statement under Article 35(2) with regard to novelty, inventive	step or industrial applicability;
citations and explanations supporting such statement	

1.	Statement Novelty (N)	Claims Claims	1-7 None	YESNO
	Inventive step (IS)	Claims Claims	1-7 None	YES NO
	Industrial applicability (IA)	Claims Claims	1-7 None	YES
1				

Citations and explanations (Rule 70.7)

Reference is made to the following document:

D1: JP 4-324797 A (MATSUSHITA ELECTRIC IND CO. LTD.) 13 November 1992

D2: JP 8-223695 A (HITACHI CONSTR MACH CO. LTD.) 30 August 1996

D3: US 5305731 A (SIEMENS AKTIENGESELLSHAFT) 26 April 1994

D4: US 5365024 A (OLYMPUS OPTICAL CO. LTD.) 15 November 1994

The subject matter of claims 1-7 relates to a speaker for focusing sound in audible frequency to a focal point, comprising a sound lens filled with a gas heavier than air; sound source generators coupled with the sound lens in concentric axis; and a sound proof chamber for surrounding the sound lens and the sound source generators.

D1 discloses a speaker equipment which has an acoustic guide lens and a sound absorbing member. D2 discloses an ultrasonic probe which has an acoustic lens and an ultrasonic absorbing material. D3 discloses a liquid lens having the two lens walls and a lens liquid situated therebetween. D4 discloses an acoustic lens system used for ultrasonic imaging in an ultrasonic system. None of these does not teach or suggest a sound lens filled with a gas heavier than air.

Therefore, the subject matter of claims 1-7 is new and is considered to involve an inventive step.